

ABSTRACT OF THE DISCLOSURE

5 An equalizer for processing blocks of data includes $n - 1$ data shifters, n finite filters, an adder, and a controller. Each of the $n - 1$ data shifters shifts the blocks of data. One of the n finite filters applies a corresponding set of finite filter coefficients to the blocks of data, and each of the other $n - 1$ finite filters applies a set of finite filter coefficients to a corresponding output of the $n - 1$ data shifters. Ghosts of the blocks of data are not eliminated as a result of the application of the n sets of finite filter coefficients corresponding to the n finite filters, and $n > 2$. The adder is arranged to add outputs from the n finite filters. The controller is arranged to control the sets of finite filter coefficients corresponding to the n finite filters so that the addition performed by the adder substantially eliminates the ghosts.